

SEQUENCE LISTING

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<212> PRT

<213> Chlamydomonas reinhardtii

<400> 7

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195 200 205 Thr Leu Leu Tyr Gly Arg Thr Gly Trp Phe Ala Ala Leu Leu Arg Glu 215 220 Thr Gly Ile Asn Val Val Phe Ala Phe Thr Gly Met Ala Leu Ala Thr 230 235 Met Phe Val Thr Leu Pro Phe Val Val Arg Glu Leu Ile Pro Ile Leu 245 250 Glu Asn Met Asp Leu Ser Gln Glu Glu Ala Ala Arg Thr Leu Gly Ala 265 Asn Asp Trp Gln Val Phe Trp Asn Val Thr Leu Pro Asn Ile Arg Trp 280 Gly Leu Leu Tyr Gly Val Ile Leu Cys Asn Ala Arg Ala Met Gly Glu 295 300 Phe Gly Ala Val Ser Val Ile Ser Gly Asn Ile Ile Gly Arg Thr Gln Thr Leu Thr Leu Phe Val Glu Ser Ala Tyr Lys Glu Tyr Asn Thr Glu 325 330 Ala Ala Phe Ala Ala Ala Val Leu Leu Ser Ala Leu Ala Leu Gly Thr 340 345 Leu Trp Ile Lys Asp Lys Val Glu Glu Ala Ala Ala Glu Ser Arg 360 Lys

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<212> PRT
<213> Chlamydomonas reinhardtii

<220>
<221> VARIANT
<222> 438
<223> Xaa = Any Amino Acid

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Phe Gln Ser Tyr Ala Leu Phe Asn His Lys Thr Val Ala Glu Asn Ile 200 Lys Phe Gly Leu Glu Val Arg Lys Leu Asn Ile Asp His Asp Lys Arg 215 220 Val Ala Glu Leu Leu Ala Leu Val Gln Leu Thr Gly Leu Gly Asp Arg 230 235 Tyr Pro Arg Gln Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Ala 245 250 Arg Ala Leu Ala Ser Asn Pro Arg Leu Leu Leu Asp Glu Pro Phe 265 Gly Ala Leu Asp Ala Val Val Arg Lys Gln Leu Arg Thr Gly Leu Arg 280 Glu Ile Val Arg Ser Val Gly Val Thr Thr Ile Ile Val Thr His Asp 295 300 Gln Glu Glu Ala Phe Asp Leu Ala Asp Lys Val Val Phe Asn Arg 310 315 Gly Leu Val Glu Gln Gln Ser Pro Thr Glu Ile Ile Lys Arg Pro 325 330 Arg Thr Pro Phe Ile Met Lys Phe Val Gly Glu Thr Asn Val Val Pro 345 Ala Thr Ser Leu Leu Ala Lys Arg Met Arg Phe Asn Thr Ser Lys Thr 360 Ser Val Met Phe Arg Pro His Asp Ile Lys Leu Phe Lys Thr Val Pro 375 380 Pro Glu Ser Gly Glu Gly Ala Leu Thr Thr Val Gly Ala Asn Val Ala 390 395 Asp Lys Ala Asn Leu Gly Trp Val Val Lys Tyr Thr Leu Arg Phe Asp 405 410 Asp Asp Val Glu Cys Glu Leu Gln Leu Ser Arg Asp Gln Asp Glu Arg 425 Glu Tyr Asn Leu Val Xaa Gly Ser Arg Val Phe Val His Val Pro His 435 440 Arg Thr Met Met Gly Phe Asn Ala Ser Asp Val Asp Ser Thr Pro Ile Val 465 <210> 9 <211> 467 <212> PRT <213> Chlamydomonas reinhardtii <400> 9 Met Ser Phe Leu Ala Pro Ser Leu Gly Val Ala Arg Gly Ile Leu Glu 10 Pro Ala Ser Ala Ala Arg Pro Pro Ala His Ala Ala Gly His Ala Pro Val Leu Thr Ser Asp Arg Thr Gly Gly Pro Ala Ala Asn His Asp Arg Pro Ala Gly Ala Pro Ser Pro His Ala Ala Ser Leu Thr Pro Ser Ser 55 Ser Gly Gln Ala Ser Gln Gln Gly Asp Pro Gln Arg Ser Gln His Gln 70 75 Gln Ala Gln Arg Gln Asp Gln Gln Gln Ser Gln Ser Arg Ser Leu Gln 90 Ser His Leu Ile Thr Ala Ala Thr Leu Leu Pro Ala Leu Pro Pro 100 105

185

180

Pro Pro Gly Gly Asn Gly Asp Gly Gly Glu Ala Ala Gly Pro Gln Pro Leu Ala Asp Val Ala Ala Gln Pro Pro Glu Val Val Leu Thr Leu Ala Ser Phe Ala Val Thr Lys Leu Ala Tyr Val Arg Val Thr Arg Ala Phe Arg Glu Trp Tyr Glu Arg Thr Lys Gly Val Asp Val Arg Phe Arg Leu Thr Phe Ala Ala Ser Gly Val Gln Ala Arg Ala Val Ile Asp Gly Leu Pro Ala Asp Ile Val Ala Leu Ala Leu Pro Leu Asp Leu Asp Lys Ile Val Ser Ala Gly Leu Ile Arg Pro Asp Trp Arg Ser Ala Tyr Pro Ala Ala Ser Val Val Cys Glu Thr Thr Val Ala Phe Val Val Arg Gln Gly Asn Pro Lys Asn Ile Arg Thr Trp Glu Asp Leu Thr Arg Ala Gly Val Glu Val Val Leu Ala Asn Pro Lys Thr Ala Gly Val Ala Arg Trp Ile Phe Leu Ala Leu Trp Gly Ala Lys Met Lys Lys Gly Asn Ala Ala Ala Leu Ala Tyr Val Gln Arg Val Phe Glu Asn Val Val Gln Pro Arg Asp Ala Arg Glu Ala Ser Asp Val Phe Tyr Lys Gln Lys Val Gly Asp Val Leu Leu Thr Tyr Glu Asn Glu Val Ile Leu Thr Asn Glu Val Tyr Gly Asp Lys Ala Leu Pro Tyr Leu Val Pro Ser Tyr Asn Ile Arg Ile Glu Cys Pro Leu Ala Leu Val Asp Lys Val Val Asp Ala Arg Gly Pro Glu Val Arg Glu Ala Ala Ser Glu Phe Cys Arg Phe Leu Phe Thr Pro Ala Ala Gln His Glu Phe Ala Arg Leu Gly Phe Arg Val Asn Pro Arg Thr Cys Lys Glu Val Ala Ala Gln Gln Thr Gly Leu Pro Pro Ala Asn Leu Trp Gln Val Asp Lys Glu Leu Gly Gly Trp Ala Ala Ala Gln Lys Lys Phe Phe Asp Ala Gly Ala Ile Leu Asp Asp Ile Gln Ser Ala Val Gly Lys Leu Arg Val Glu Gln Arg Lys Ala Ala Gln Ala Ala Ala Arg Arg